



Meade County RECC

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3/10/14

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Director of Engineering
Kentucky Public Service Commission
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P.O. Box 615
Frankfort, Ky 40602-0615

Case No. 2006 - 00494

To Whom it May Concern,

Attached is the annual reliability report for 2013 for Meade County RECC. If you should have any questions or concerns, you may contact me at (270) 422-2162.

Sincerely,

David R. Poe, P.E.
Vice President of Operations & Engineering

Kentucky Public Service Commission

Electric Distribution Utility Annual Reliability Report

Section 1: Contact Information

UTILITY NAME	1.1	Meade County RECC
REPORT PREPARED BY	1.2	David Poe
EMAIL ADDRESS OF PREPARER	1.3	dpoe@mcreece.com
PHONE NUMBER OF PREPARER	1.4	270-422-2162 Ext. 3149

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	2013
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SECTION 3: MAJOR EVENT DAYS

Tmed	3.1	9.48
FIRST DATE USED TO DETERMINE Tmed	3.2	January 1, 2010
LAST DATE USED TO DETERMINE Tmed	3.3	December 31, 2012
NUMBER OF MED IN REPORT YEAR	3.4	3

NOTE: Per IEEE 1366 Tmed should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY RESULTS

	EXCLUDING MED	
SAIDI	4.1	96.960
SAIFI	4.2	1.411
CAIDI	4.3	68.726
	INCLUDING MED (OPTIONAL)	
SAIDI	4.4	146.011
SAIFI	4.5	1.641
CAIDI	4.6	88.967

NOTES:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of April each year.
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI and Tmed.

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SECTION 5: OUTAGE CAUSE CATEGORIES

CAUSE CODE DESCRIPTION		SAIDI VALUE	CAUSE CODE DESCRIPTION		SAIFI VALUE
Storms	5.1.1	22.874	Line Hardware	5.2.1	0.281
Line Hardware	5.1.2	21.552	Birds/Animals	5.2.2	0.229
Birds/animals	5.1.3	12.212	Storms	5.2.3	0.214
Pre-arranged	5.1.4	7.512	Power Supplier	5.2.4	0.212
Unknown	5.1.5	7.138	Pre-arranged	5.2.5	0.181
Power Supplier	5.1.6	6.871	Unknown	5.2.6	0.122
Conductor	5.1.7	6.429	Public Cause	5.2.7	0.058
Public Cause	5.1.8	4.781	Conductor	5.2.8	0.055
Trees-out-of-the ROW	5.1.9	3.987	Trees-out-of-the-ROW	5.2.9	0.035
Transformer	5.1.10	3.212	Transformer	5.2.10	0.019

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
Garrett 3	6.1.1 358.47	Line Hardware
McDaniels 3	6.1.2 355.57	Storms
Garrett 1	6.1.3 328.67	Line Hardware
Fordsville 2	6.1.4 295.43	Storms
Battletown 3	6.1.5 267.62	Public Cause
Garrett 2	6.1.6 231.82	Line Hardware
Custer 2	6.1.7 231.55	Transformer
Harned 1	6.1.8 163.71	Unknown
Hardinsburg2 1	6.1.9 159.71	Storms
Battletown 1	6.1.10 154.00	Line Hardware

CIRCUIT IDENTIFIER	SAIFI VALUE	MAJOR OUTAGE CATEGORY
Garrett 3	6.2.1 3.398	Line Hardware
Garrett 1	6.2.2 3.264	Line Hardware
Harned 1	6.2.3 3.113	Line Hardware
Battletown 3	6.2.4 3.097	Power Supplier
McDaniels 3	6.2.5 3.012	Storms
Hardinsburg1 2	6.2.6 2.649	Storms
Battletown 1	6.2.7 2.500	Power Supplier
Doe Valley 1	6.2.8 2.467	Birds/Animals
Hardinsburg2 1	6.2.9 2.460	Unknown
Battletown 2	6.2.10 2.458	Power Supplier

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Additional pages may be attached as necessary

SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

With SAIDI values of 0.222 and 3.987 minutes (trees-in and tress-out of the ROW respectively), vegetation is not deemed a concerning contributing factor during 2013. The planned substation trimming schedules for 2013 were completed and no changes are anticipated in the vegetation management plan for 2014.

SECTION 8: UTILITY COMMENTS

Meade County RECC converted to a new Outage Mangement System (OMS) in 2010. Because of the noticeable manner and precision the outages are now tracked versus the prior method and due to the massive effort required to convert the old data into the new OMS, the Tmed calculations and other comparisons are performed only for the years 2010 through 2013.

The most prominent issue during 2013 was the failure of an insulator in the Garrett substation. This piece of 'line hardware' yielded high SAIDI and SAIFI numbers. Further inspection did not uncover any other deficiencies within the sub.

The replacement of old copper conductor is ongoing. Outages due to conductor have greatly declined over the years of this endeavor. This initiative is schedule to be completed near the end of 2015.